



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

MMC1/0405

FOLEY & LARDNER  
3000 K STREET STE 500  
WASHINGTON DC 20007-5109

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
09/253,053	02/19/99	011	BRASE, S	2852 04/05/00
First Named Applicant	MATSUMOTO, 35 USC 154(b) term ext. = 0 Days.			

TITLE OF INVENTION IMAGE FORMING APPARATUS AND EXPOSURE SCANNING APPARATUS

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	016907/0957	347-133.000	K64 UTILITY	NO	\$1210.00	07/05/00

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.  
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.  
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

PATENT AND TRADEMARK OFFICE COPY



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/253,053	02/19/99	MATSUMOTO	T 016907/0957

FOLEY & LARDNER  
3000 K STREET STE 500  
WASHINGTON DC 20007-5109

MMC1/0405

EXAMINER

BRASE, S

ART UNIT

PAPER NUMBER

2852

DATE MAILED: 04/05/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Notice of Allowability

Application No.

09/253,053

Applicant(s)

MATSUMOTO

Examiner

Sandra L. Brase

Group Art Unit

2852



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to application filed Feb 19, 1999.

☒ The allowed claim(s) is/are 1-11.

☒ The drawings filed on Feb 19, 1999 are acceptable.

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☐ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☐ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_.

☐ including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☒ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

Art Unit: 2852

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

/

On line 6 of claim 5, change "front" to --- font ---.

The following is an examiner's statement of reasons for allowance.

Claims 1-5

The reason for allowance is an image forming apparatus comprising: light-emitting means for emitting a light beam in accordance with image data representing pixels arranged in a main scanning direction and a sub-scanning direction; an image carrier for forming an electrostatic latent image when scanned with the light beam emitted from the light-emitting means; scanning means for scanning the image carrier with the light beam emitted from the light-emitting means, the scanning means including a polygon mirror for reflecting the light beam; first drive means for rotating the polygon mirror; second drive means for rotating the image carrier, thereby to move a surface of the image carrier in the sub-scanning direction; developing means for applying developer onto the image carrier, thereby to develop the electrostatic latent image into a visible image; transfer means for transferring the visible image from the image carrier onto an image-forming medium; first speed-changing means for changing a rotational speed of the first drive means in accordance with an error in magnification in the main scanning direction, the error being

Art Unit: 2852

determined from a size ratio of the visible image transferred onto the image-forming medium to an original document image; and second speed-changing means for changing a rotational speed of the second drive means in accordance with the change in the rotational speed of the first drive means. The above limitations are contained in claims 1-5, but are not taught or suggested by the prior art.

Claims 6-11

The reasons for allowance is a method of forming an image, comprising the steps of :  
emitting a light beam in accordance with image data representing pixels arranged in a main scanning direction and a sub-scanning direction; scanning an image carrier with the light beam in the main scanning direction by reflecting the light beam by means of a rotating polygon mirror; rotating the image carrier, thereby moving a surface of the image carrier in the sub-scanning direction and forming an electrostatic latent image on the surface of the image carrier; applying developer onto the image carrier, thereby to develop the electrostatic latent image into a visible image; transferring the visible image from the image carrier onto an image-forming medium; changing a rotational speed of the polygon mirror in accordance with an error in magnification in the main scanning direction, the magnification being determined from a size ratio of the visible image transferred onto the image-forming medium to an original document image and changing a rotational speed of the image carrier in accordance with the change in the rotational speed of the polygon mirror. The above limitations are contained in claims 6-11, but are not taught or suggested by the prior art.

Art Unit: 2852

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

A handwritten signature in cursive script, reading "Sandra L. Brase".

**Sandra Brase**  
**Primary Examiner**

March 31, 2000